

- 9 -

CLAIMS

1. Tooth for a bucket (11) of excavators, or similar equipment, comprising a work element (13) able to be associated with a relative support element (12), wherein
5 said support element (12) has a main body (14) by means of which it is able to be fixed to said bucket (11), and a front protrusion (15) able to be inserted in a mating cavity (16) made on the rear of said work element (13), in order to define a coupling condition between said work
10 element (13) and said support element (12), and wherein pin means (17) are able to be inserted both in said support element (12) and also in said work element (13) in order to reciprocally clamp said work element (13) on said support element (12) in said coupling condition,
15 characterized in that said work element (13) comprises at least an appendix (19) protruding from the rear with respect to said cavity (16) and able to couple with said main body (14) in correspondence with a mating recess (22) defining at least a relative upper edge (22a), in
20 such a manner that, in said coupling condition, between the upper profile (19c) of said appendix (19) and said upper edge (22a) there is normally a first slit (24), and in that a housing seating (20) for said pin means (17) is made partly in said appendix (19) and partly in said main
25 body (14).
2. Tooth as in claim 1, characterized in that said work element (13) comprises two appendixes (19) arranged substantially symmetrical with respect to a median longitudinal axis thereof.
- 30 3. Tooth as in claim 1 or 2, characterized in that each of said appendixes (19) is defined by an extension of at least a lateral wall (18) of said cavity (16).
4. Tooth as in any claim hereinbefore, wherein said

- 10 -

cavity (16) is delimited at the lower part by a lower wall (25), characterized in that, in said coupling condition, between the lower segment (14a) of said main body (14) and said lower wall (25) there is a second slit 5 (26) of a width greater than said first slit (24).

5. Tooth as in any claim hereinbefore, characterized in that said appendixes (19) are conformed substantially as a prism with a trapezoid base.

10 6. Tooth as in any claim hereinbefore, characterized in that said housing seating (20) is defined by a through hole (21), made on said main body (14) and with a section mating with said pin means (17), and by an aperture (19a, 19b) made on each of said appendixes (19), able to be put in cooperation with said through hole (21).

15 7. Tooth as in claim 6, characterized in that, between said pin means (17) inserted in said housing seating (20) and the lower edge (19d) of said aperture (19a, 19b) there is a gap (27) of a greater amplitude than the width of said first slit (24).

20 8. Tooth as in claim 6, characterized in that, in said coupling condition and with said pin means (17) disconnected from said housing seating (20), said aperture (19a, 19b) is slightly off-center, towards said front protrusion (15) with respect to said through hole 25 (21), the insertion of said pin means (17) into said housing seating (20) determining the alignment of said aperture (19a, 19b) and said through hole (21) and a further penetration of said front protrusion (15) into said cavity (16).

30 9. Tooth as in any claim hereinbefore, characterized in that said aperture consists of a hollow (19a) of said appendix (19).

10. Tooth as in any claim from 1 to 8 inclusive,

- 11 -

characterized in that said aperture consists of an eyelet (19b) present on said appendix (19).

11. Tooth as in any claim hereinbefore, characterized in that said front protrusion (15) has a substantially 5 polygonal transverse section.

12. Tooth as in any claim hereinbefore, characterized in that said front protrusion (15) has a transverse section that narrows from its rear end, facing towards said main body (14), to its front end.

10 13. Tooth as in any claim hereinbefore, characterized in that said front protrusion (15) has at least a longitudinal groove (23) on one face thereof.

14. Tooth as in any claim hereinbefore, characterized in that said pin means (17) have a section that is at least 15 partly deformable elastically.

15. Tooth as in claim 14, characterized in that said pin means (17) are axially hollow and have a longitudinal through cut (17a).